INTER-OFFICE COMMUNICATION

TO Russ Stein, Geologist, Div. of Surveillance DATE June 14, 1973

FROM: Dave Johe DJ

SUBJECT: Disposal Site for Chem-met Material from Erie Way Corporation

On April 4 and 5, 1973 Jim Beeman and I investigated three sites in Cuyahoga County which have been proposed as disposal sites for Chem-met material from Erie Way Corporation. All three sites are existing landfills. The names, locations, and a brief description of the geology at each site are as follows:

1. Harry Rock Landfill, 7720 Harvard Road, Cleveland, Ohio (See attached map for exact location)

   This landfill has been developed in the Mill Creek Valley and is utilized for the disposal of demolition material and solid industrial waste. Mill Creek flows over shale bedrock and is bounded on both sides by shale escarpments approximately 100 feet high. The fill material is approximately 80 feet thick at present.

   There is no possibility of ground-water contamination at this site due to the thickness and impermeable nature of the shale. However, all leachate generated by the fill will enter Mill Creek.

2. Testa Brothers Landfill is located east of Richmond Road, approximately 3,000 feet south of Solon Road, just north of Tinkers Creek. Browning Ferris Industries owns this site which has been developed in an abandoned sand and gravel pit.

The clay over-burden, removed and stockpiled prior to extraction of the sand and gravel, has reportedly been spread under the base of the fill and is used for cover material.

The bedrock and principal aquifer in this area is the Cuyahoga sandstone and shale which lies approximately 120 feet below land surface. The glacial deposits above the bedrock are essentially clay interbedded with relatively thin layers of sand and gravel.

Available well logs show that the wells in this area have been developed in the sandstone bedrock. Use of this site does not pose any serious threat to ground-water, however, any leachate from this site could seriously affect Tinkers Creek.

A detailed evaluation of this site was made by Jim Schmidt in 1966 (see file).

Glenwillow

3. Frank Groslik Landfill, owned by the Austin Powder Company, is located on the south side of Pettibone Road adjacent to Tinkers Creek (see map). Tinkers Creek has been re-routed around the west side of the landfill. This landfill received domestic and dry industrial waste from many of the surrounding municipalities.

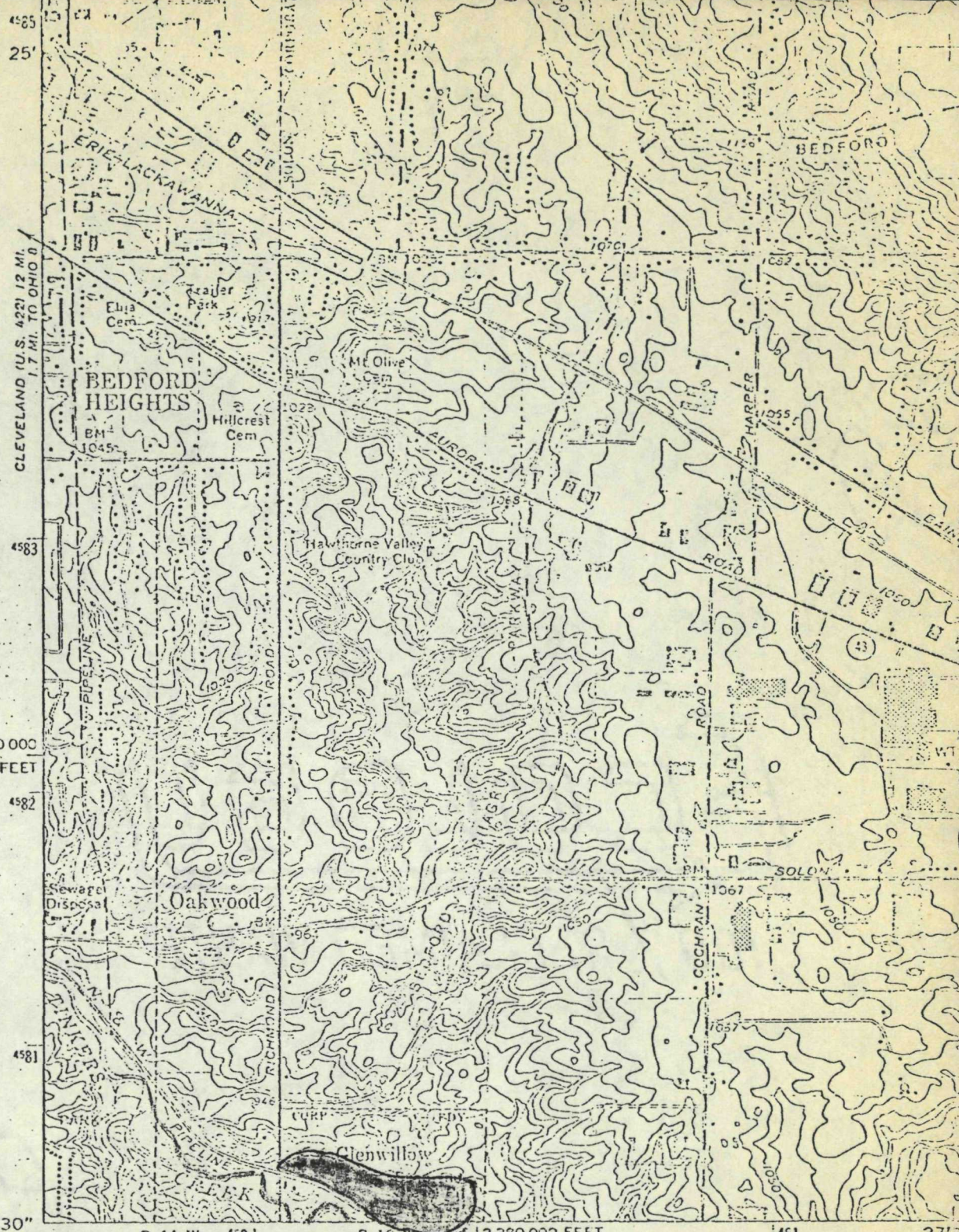
The site is located on the western flank of a buried valley. Depth to bedrock (Orangeville Shale and Berea Sandstone) is approximately 100 feet.

The unconsolidated material above the bedrock is primarily clay till which contains numerous continuous sand and gravel layers. Thick layers of permeable sand and gravel were observed in the banks of Tinkers Creek along the section that was moved.

Use of this site poses a serious threat to ground-water as well as Tinkers Creek.

DJ/bjk

Attached: 3 Maps



Testa Brothers Landfill (red)

Chagrin Falls, Ohio quad.

(NORTHFIELD) 4666 I SE

Mapped, edited, and published by the Geological Survey
Revised in cooperation with State of Ohio agencies

Control by USGS, USC&GS, and Cleveland Regional Geodetic Survey

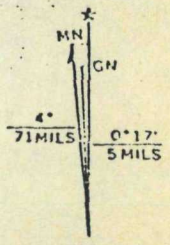
Topography by photogrammetric methods from aerial photographs taken 1952 and in part by Cleveland Regional Geodetic Survey
Field checked 1953. Revised from aerial photographs taken 1962
Field checked 1963

Polyconic projection. 1927 North American datum
10,000-foot grid based on Ohio coordinate system, north zone
1000-meter Universal Transverse Mercator grid ticks, zone 17, shown in blue

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked

Red tint indicates areas in which only landmark buildings are shown

Entire area lies within the Connecticut Western Reserve
Dotted land lines established by private subdivision of the Connecticut Western Reserve



UTM GRID AND 1970 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET